

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1           Claim 1 (previously presented):       A routing control method in an optical packet switching  
2       network including a plurality of optical packet switches, each optical packet switch having a plurality  
3       of output ports used for sending packets to other optical packet switches, respectively, said method  
4       comprising the steps of:

5           in a one optical packet switch, monitoring congestion conditions at its output ports;

6           in said one optical packet switch, transferring packets to be stored in a one output port that  
7       is judged in said monitoring step as in congestion, to other output port that is judged in said  
8       monitoring step as not in congestion;

9           from said one optical packet switch, sending the packets as reflection packets via said other  
10       output port to an other optical packet switch corresponding to said other output port; and

11          from said other optical packet switch, returning said reflection packets to said one optical  
12       packet switch, wherein said transferring step comprises selecting said other output port in random  
13       from output ports judged in said monitoring step as not in congestion so as to provide reflection  
14       routes with transmission delay times within a predetermined range.

Claim 2 (canceled).

Claim 3 (canceled).

1           Claim 4 (previously presented):       A routing control method in an optical packet switching  
2   network including a plurality of optical packet switches, each optical packet switch having a plurality  
3   of output ports used for sending packets to other optical packet switches, respectively, said method  
4   comprising the steps of:

5           in a one optical packet switch, monitoring congestion conditions at its output ports;

6           in said one optical packet switch, transferring packets to be stored in a one output port that  
7   is judged in said monitoring step as in congestion, to other output port that is judged in said  
8   monitoring step as not in congestion;

9           from said one optical packet switch, sending the packets as reflection packets via said other  
10   output port to an other optical packet switch corresponding to said other output port; and

11          from said other optical packet switch, returning said reflection packets to said one optical  
12   packet switch, wherein said transferring step comprises sequentially selecting said other output port  
13   from output ports judged in said monitoring step as not in congestion so as to provide reflection  
14   routes with transmission delay times within a predetermined range.

1           Claim 5 (previously presented):       The method as claimed in either claim 1 or claim 4,  
2       wherein said method further comprises a step of storing the reflection packets returned from said  
3       other optical packet switch to said one output port if it is judged in said monitoring step that this one  
4       output port is not in congestion.

1           Claim 6 (previously presented):       The method as claimed in either claim 1 or claim 4,  
2       wherein said method further comprises a step of storing the reflection packets returned from said  
3       other optical packet switch to other output port that is judged in said monitoring step as not in  
4       congestion if it is judged in said monitoring step that said one output port is in congestion, and  
5       wherein said sending step and returning step are repeatedly performed.

1           Claim 7 (previously presented):       The method as claimed in either claim 1 or claim 4,  
2       wherein said method further comprises a step of sending the reflection packets returned from said  
3       other optical packet switch earlier than packets stored in said one output port.

1           Claim 8 (previously presented):       The method as claimed in either claim 1 or  
2       claim 4, wherein said method further comprises a step of counting the number of reflection and a  
3       step of abandoning packets when a counted number reaches a predetermined number.

1           Claim 9 (previously presented):       A routing control method in an optical packet switching  
2 network including at least first, second and third optical packet switches, said method comprising  
3 the steps of:

4           in said first optical packet switch, when a first output port used for sending optical packets  
5 to said second optical packet switch is in congestion and a second output port used for sending  
6 optical packets to said third optical packet switch is not in congestion, sending optical packets to be  
7 sent to said second optical packet switch to said third optical packet switch via said second output  
8 port as reflection packets;

9           in said third optical packet switch, returning the reflection packets received from said first  
10 optical packet switch to said first optical packet switch; and

11          in said first optical packet switch, when said first output port is not in congestion, sending  
12 the reflection packets to said second optical packet switch via said first output port, wherein said  
13 sending step comprises selecting said second output port in random so as to provide reflection routes  
14 with transmission delay times within a predetermined range.

1           Claim 10 (original):   The method as claimed in claim 9, wherein said method further  
2 comprises, in said first optical packet switch, monitoring congestion conditions at said first and  
3 second output ports.

Claim 11 (canceled).

Claim 12 (canceled).

1           Claim 13 (previously presented):     A routing control method in an optical packet switching  
2     network including at least first, second and third optical packet switches, said method comprising  
3     the steps of:

4           in said first optical packet switch, when a first output port used for sending optical packets  
5     to said second optical packet switch is in congestion and a second output port used for sending  
6     optical packets to said third optical packet switch is not in congestion, sending optical packets to be  
7     sent to said second optical packet switch to said third optical packet switch via said second output  
8     port as reflection packets;

9           in said third optical packet switch, returning the reflection packets received from said first  
10    optical packet switch to said first optical packet switch; and

11          in said first optical packet switch, when said first output port is not in congestion, sending  
12    the reflection packets to said second optical packet switch via said first output port, wherein said  
13    sending step comprises sequentially selecting said second output port so as to provide reflection  
14    routes with transmission delay times within a predetermined range.

1           Claim 14 (previously presented):     The method as claimed in either claim 9 or claim 13,  
2     wherein said method further comprises a step of storing the reflection packets returned from said  
3     third optical packet switch to said second output port if said first output port is in congestion, and  
4     wherein said reflection packets sending step and returning step are repeatedly performed.

1           Claim 15 previously presented):     The method as claimed in either claim 9 or claim 13,  
2     wherein said method further comprises a step of sending the reflection packets returned from said  
3     third optical packet switch earlier than packets stored in said first output port.

          Claim 16 previously presented):     The method as claimed in either claim 9 or claim 13,  
wherein said method further comprises a step of counting the number of reflection and a step of  
abandoning packets when a counted number reaches a predetermined number.

Claim 17 (canceled).

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